



**BRUNING®**

CHARLES BRUNING COMPANY

DIVISION OF ADDRESSOGRAPH MULTIGRAPH CORPORATION

1800 W. CENTRAL RD. • MOUNT PROSPECT, ILL. 60056

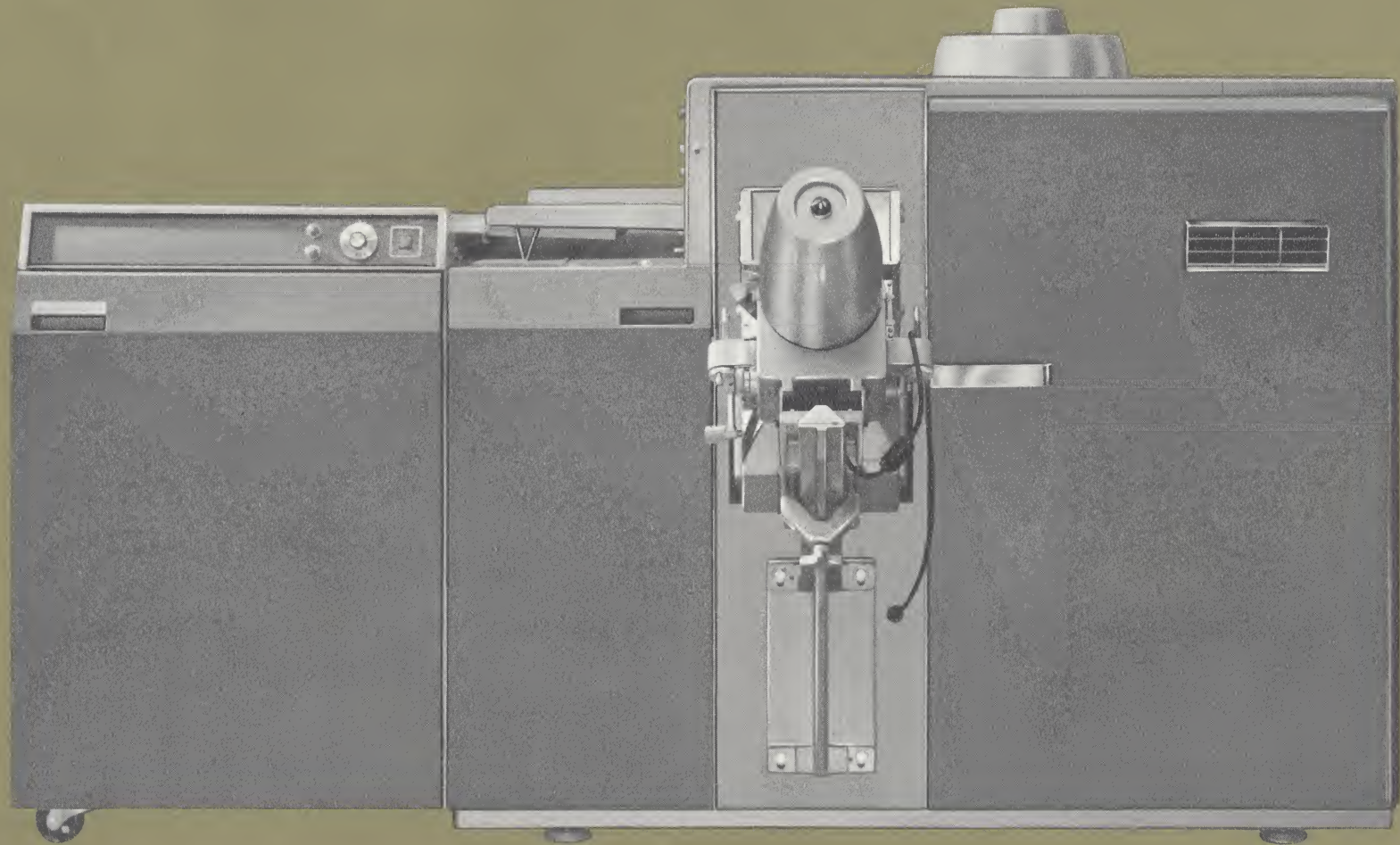


Mr. T. Nelson  
Box 1546  
Poughkeepsie, New York 12603

**FIRST CLASS MAIL**

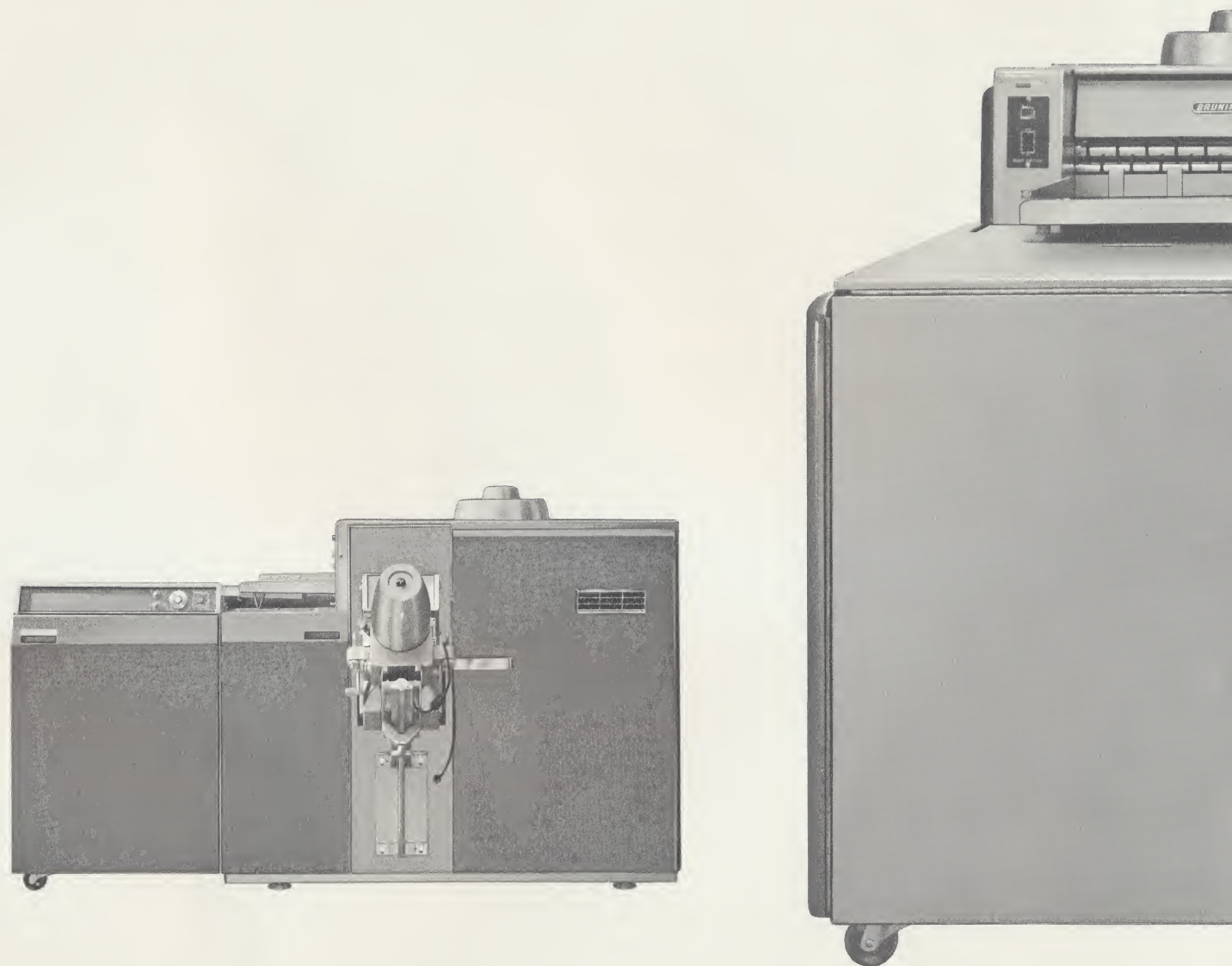
HERE IS  
THE  
LITERATURE  
YOU  
REQUESTED  
!

A Microfilm Enlarger-Printer  
with Programmed Print Selection  
... Plus Automatic Feed



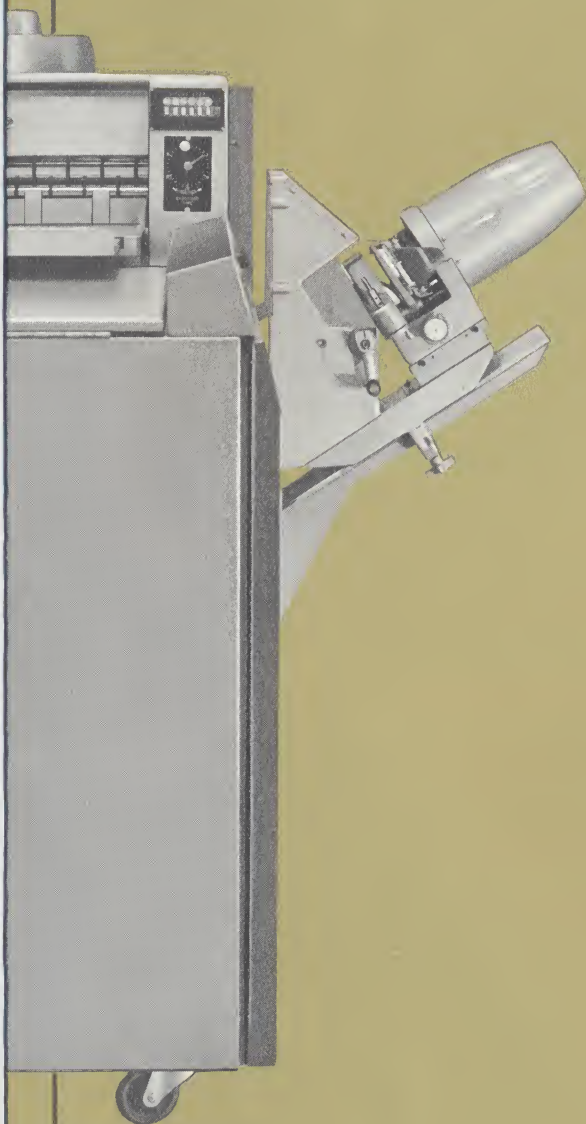
**THE NEW BRUNING 1200**





## **BRUNING 1200 . . . THE STRONGEST LINK IN ANY MICROFILM SYSTEM**

You want 20 work-size prints of microfilmed drawings or information and you want them now. ■ What do you do? ■ You turn on your Bruning 1200 Enlarger-Printer. ■ You push a button to select print size . . . set a dial to 20 . . . place your spool of microfilm or aperture card in the enlarger head . . . hit the print button . . . and go about other business for the next few minutes because the Bruning 1200 takes over from here on. ■ At your return the 1200 will have delivered 20 highly legible, work-size electrostatic prints—quickly, silently and automatically.



*Long used as a filing or reference tool in business and archival systems,*

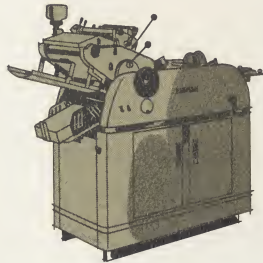
microfilm has come of age in engineering reproduction. A key link in microfilm filing/reproduction applications, the Bruning 1200 more than justifies both itself and the complete microfilm record-keeping, print-back operation of a busy engineering department.

In addition to its high degree of automation, the 1200 has all the usual (and not so usual) features of other enlarger-printers. Features like speed—easy-to-read work-size prints return at a rate of four a minute; a proven method of reproduction—the Bruning electrostatic copying process delivers clean, flat dry prints every time; flexibility—handles card-mounted as well as roll-type 35 mm. microfilm . . . returns automated prints in any of six sizes . . . standard 14x-16x enlarger head can be interchanged in the field with 8x or 12x head . . . makes masters for volume offset runs . . . allows manual feeding of copy sheets without removal of stored roll stock; operator convenience—prints are delivered face-up at desk height . . . all controls are within easy reach of the operator . . . a scanner aids in identifying frames on roll-type microfilm.

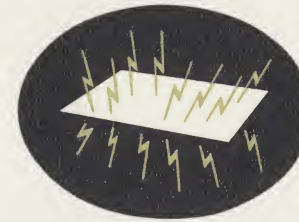
Never has a microfilm enlarger-printer offered so much as the Bruning 1200. Only the 1200 can promise—and deliver—efficient, sophisticated microfilm systems that save you thousands of dollars, valuable time and precious space.



## Making Masters for Offset Printing



For heavy volume printmaking two machines can be used in tandem to make hundreds of prints in a very short time and at tremendous savings. The 1200 is used to make the master plate; the master is then etched and run on an offset press (the Addressograph Multigraph 2024 Offset Duplicator is particularly suited to this application). In this manner, up to 150 copies per master plate can be reproduced at high speeds.

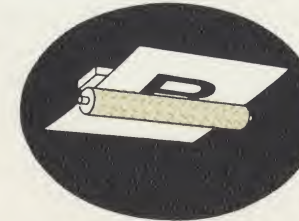


**1 • CHARGING**—A uniform electrostatic charge is placed on the surface of Bruning electrostatic paper.

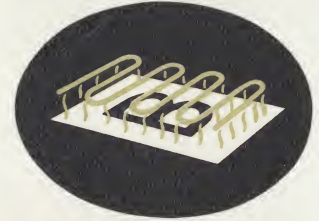


**2 • EXPOSURE**—A precision optical system projects the image from the microfilm to the Bruning electrostatic paper.

### *basic principles of the Bruning electrostatic process*



**3 • IMAGE DEVELOPMENT**—Dry powder (toner) is automatically brushed over the surface of the paper. The toner adheres to the image area only.



**4 • FUSING**—Toner is fused into the paper, thus forming a permanent black image. Copies are completely dry, ready for immediate use.

## SPECIFICATIONS

**Microfilm Enlarger Head:** Accommodates 35mm. card-mounted or roll-type microfilm. Loading slot for card-mounted microfilm centers frame in front of lens when card is fed into head. Mechanism for winding and rewinding roll-type microfilm is equipped with magnifying scanner which speeds the selection and positioning of frame on the reel.

**Enlargement Size of Print:** Unitized or roll microfilm can be enlarged 14 to 16 diameters. Auxiliary enlarging heads of 8x or 12x are available and readily interchangeable.

**Over-All Print Size:** Accommodates two rolls of copy paper up to 18 inches wide. Length automatically determined by selection of a "sheet size" button. Machine can be programmed to make multiple prints in any of six sizes in the 8½x11" to 18x24" range. Also accepts manually fed sheets (paper or other base materials) in sizes other than those used in programming.

**Print Delivery:** Finished prints are delivered face-up to operator in handy upper front tray.

**Exposure Time:** Approximately 5 seconds per copy; finished print is delivered within 30 seconds after exposure. After development, but before fusing, prints and offset masters can be removed for deletion of parts of the image, if desired, then returned to machine for fusing of permanent image. While machine is completing the processing of an exposed print, exposure and processing of new prints can be started.

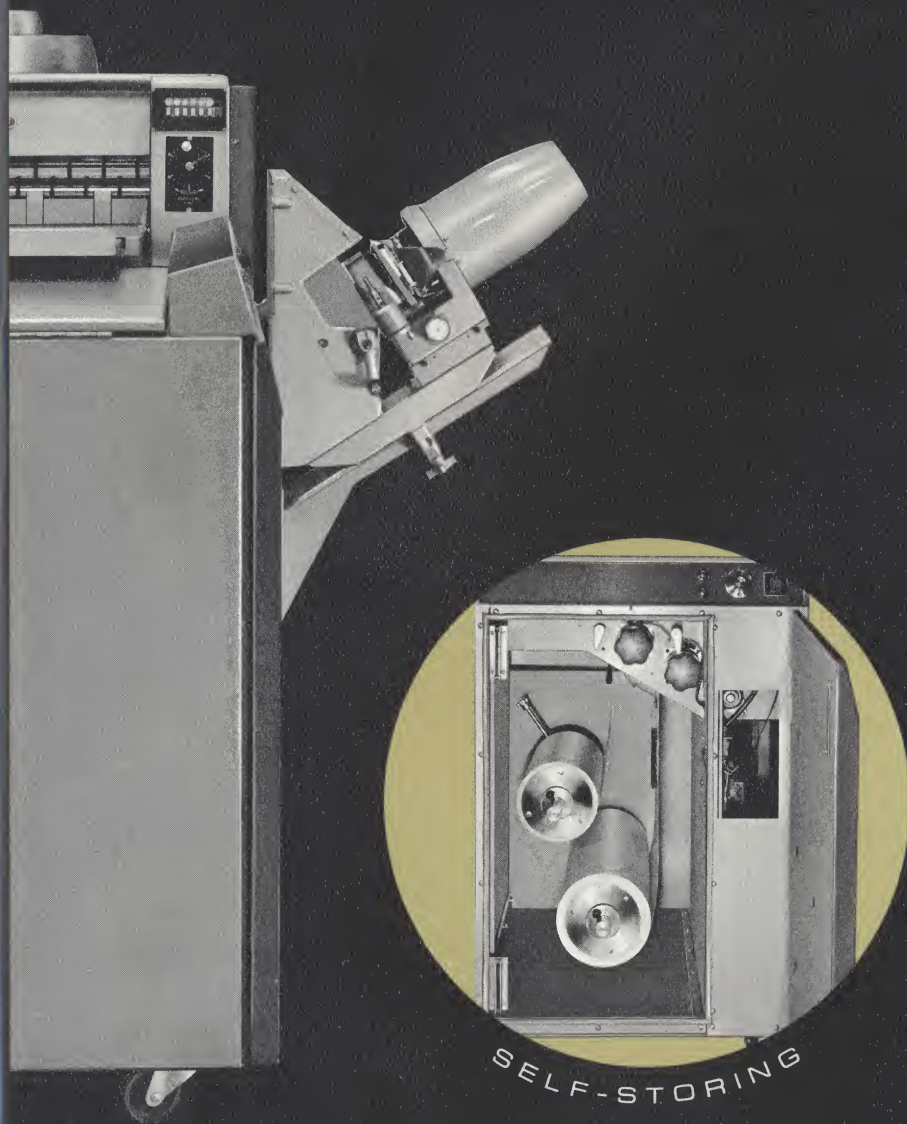
**Production Rate:** 4 dry copies per minute.

**Electrical Requirements:** 115 volt, single phase, 60 cycle, alternating current. Operating amperage: 28. Also available with 230 volts, 14 amps.

**Basic Cabinet Dimensions:** Cabinet is 43" high, total floor space occupies an area 79½" long by 53" wide, including enlarger head. Weight: approximately 875 pounds.

**Cabinet Construction:** Heavy gauge steel, with baked-on, two-tone gray hammertone finish.





# THE 1200

*Offers Full Printmaking Convenience  
in an Automated Enlarger-Printer*

**PROGRAMMED PRINTMAKING** • Pre-determine the number of prints (up to 20) by setting a dial . . . choose your own print size by pressing one of six "sheet size" buttons. Minimum dimensions are 8½x11", maximum are 18x24".

**SELF-STORING MATERIALS** • For optimum utility load the machine with the two widths of rolls that most frequently correspond to the width of your prints. An internal cutting blade cuts the sheet to your choice of six lengths.

**SELF-FEEDING OPERATION** • No more manual insertion of copying materials. The 1200 unrolls the sensitized paper, cuts it, exposes it, develops and fuses the enlarged image and delivers the finished print—ready for immediate use.

**ADJUSTABLE MAGNIFICATION** • A unique feature whereby magnification is adjustable from 14x to 16x, allowing for full image reproduction.

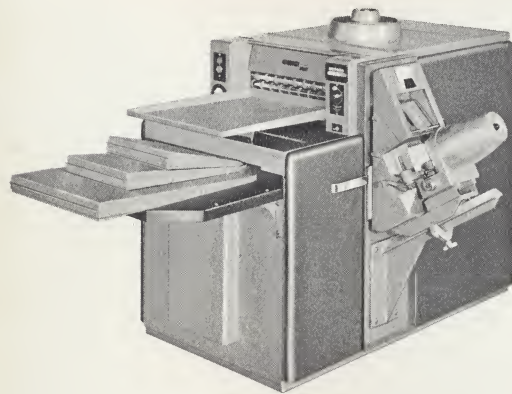
The Bruning 1200 Enlarger-Printer is a distinct departure from otherwise comparable machines largely because of its programmed automation and internal storage of roll stock sensitized material. ■ Prints—up to 20 at a time—can be made simply by dialing the quantity needed and pressing a button. Print sizes—your choice of any six factory-set dimensions ranging from 8½x11" to 18x24"—can be pre-selected with push-button ease and simplicity. ■ Inside the front section of the 1200 are two webs for holding any width of sensitized roll stock up to 18 inches wide. Depending on which "sheet size" button is selected, one or the other web triggers a completely automatic enlarging-printing cycle. With less automated machines the operator must hand-feed a sheet of paper for each print needed.



## Bruning's Other Enlarger-Printers

*In addition to its new 1200, Bruning still offers three other electrostatic enlarger-printers—either of which might better suit your particular printmaking needs.*

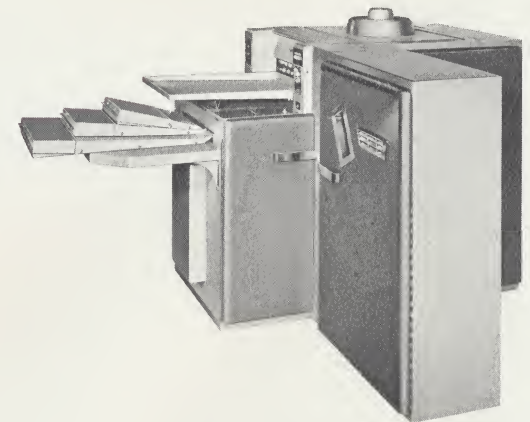
**The Bruning 1100**, for instance, might better fit into a department that engages in a medium, rather than heavy, volume of microfilm enlarging-printing. Like the Bruning 1200, the 1100 prints back from unitized or roll-type 35 mm. microfilm. Prints may be any of three sizes—as small as 8½x11" or as large as 18x24". Unlike the 1200, this model has no multiple print dial. Hence, individual sheets of copy paper—three sizes stored in three magazines—are fed one at a time.



***Bruning 1100***

*Aside from the storage of sheet copy paper (as opposed to roll stock), a choice of three rather than six print sizes, and the absence of a multiple print dial, the Bruning 1100 is basically the same machine as the more automated 1200.*

**The Bruning 1105 and 1170** are close relatives of the 1100 except for (1) a cabinet-enclosed enlarger head that handles card-mounted microfilm only, and (2) the size microfilm each takes—105 mm. for the 1105; 70 mm. for the 1170.



***Bruning 1105 and 1170***



**CHARLES BRUNING COMPANY**

*Division of Addressograph Multigraph Corporation*

**1800 WEST CENTRAL ROAD • MT. PROSPECT, ILLINOIS • 60056**